

Rialto Environmental Assessment Partnership “REAP”

PROPOSED PERCHLORATE REMEDIATION DEMONSTRATION PROJECT

Rialto, CA

March 2004

-----*

Prepared By

UNITED STRATEGIES, INC.

Technical Assistance By

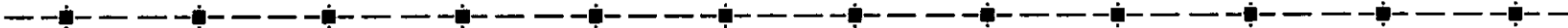
KLEINFELDER, INC.

-----*

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004

- 
- ✦ Coalition Building Efforts
 - ✦ Consultant Selection Process
 - ✦ Initial Due Diligence
 - ✦ Technology Screening
 - ✦ Lab/ Field Preliminary Screening
 - ✦ Conceptual Design
 - ✦ Preparation of Workplan
 - ✦ Demonstration Project Kickoff
 - ✦ Demonstration Project Results
 - ✦ Community – Coalition – Presentation

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



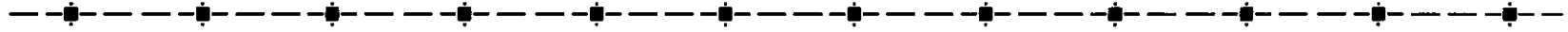
COALITION BUILDING

- ✦ Complete Project Outline
- ✦ Identity Partners and Stakeholders
- ✦ Hand to Hand Participation
- ✦ Execute Participation Agreement
- ✦ Embrace Resolutions
- ✦ Communicate Formally & Informally
- ✦ Establish Clearinghouse for Information

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



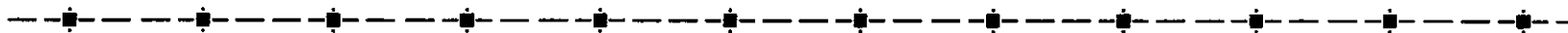
CONSULTANT SELECTION

- ✱ A qualified organization or firm (consultant) is invited to review site background data, including information on geology, hydrogeology, site chemistry, contaminants of concern and their extent, and other related site constraints.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



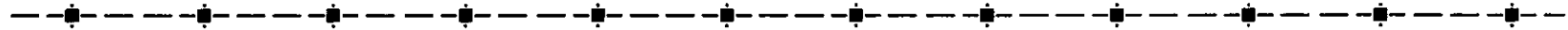
INITIAL DUE DILIGENCE

- ✱ The consultant prepares initial review of available technologies that may apply to the site and then selects the most feasible approaches for detailed evaluation (usually a minimum of five (5) approaches).

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



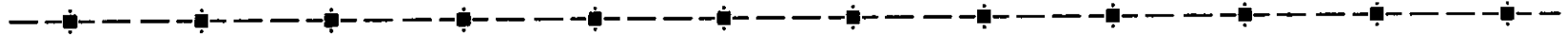
TECHNICAL SCREENING – TECHNICAL FEASIBILITY

- ✦ Technical Feasibility discusses how well the technology fits with the site conditions, how well the technology can be monitored and evaluated for effectiveness, and addresses research data gaps.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



TECHNICAL SCREENING – ENVIRONMENTAL PROTECTION

- ✱ Environmental Protection discusses if testing of the technology would pose any risk to human health or the environment.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



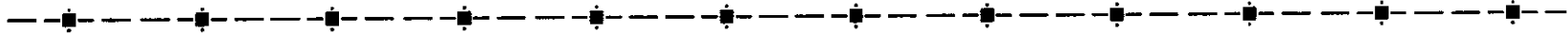
TECHNICAL SCREENING – RESEARCH VALUE

- ✱ Research Value is specific to demonstration projects discussing “if” and to what extent testing this technology will further contribute to the overall objective, and offers new insights on treatment technology for the contaminants of concern.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



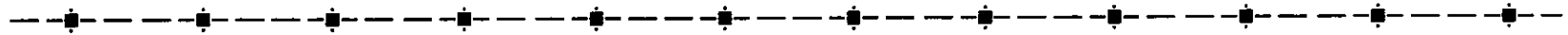
TECHNICAL SCREENING - IMPLEMENTABILITY

- ✱ Implementability discusses the ease or difficulty that would be involved with physically implementing, constructing and monitoring the technology at the site.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



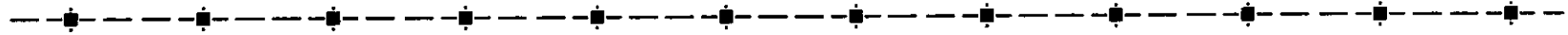
TECHNICAL SCREENING - RELIABILITY

- ✱ Reliability discusses how much maintenance (both labor and equipment) would be required to keep the technology operating effectively.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



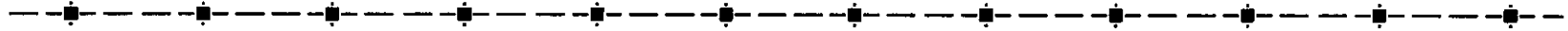
TECHNICAL SCREENING - COST

- ✱ Cost discusses the estimated capital costs to implement the chosen technology and O & M costs.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



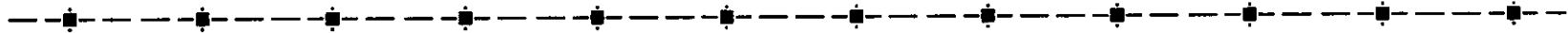
LAB/FIELD PRELIMINARY SCREENING

- ✎ Following the technology screening and preliminary evaluation, a strategy is then selected and a conceptual approach to the demonstration technology outlined. This approach may include bench (laboratory) scale testing or pilot (field) scale testing.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



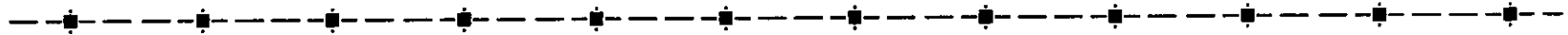
CONCEPTUAL DESIGN

- ✦ Following the laboratory and field testing, a Conceptual Demonstration Project Design is prepared. The preliminary screening, the detailed evaluation, and the conceptual design are typically presented in report format for coalition members, and community and stakeholder comments.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



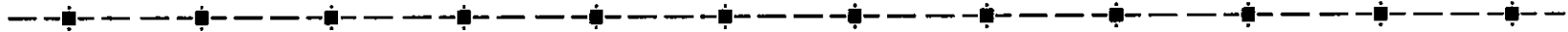
PREPARATION OF WORKPLAN

- ✱ Once buy-in is achieved with regulators, coalition members and the community, a detailed workplan is drafted for review. Once approved, the Demonstration Project can proceed.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



DEMONSTRATION PROJECT KICK-OFF

- ✱ The Demonstration Project can commence pursuant to workplan approvals, financing being secured and relocation of existing manufacturing operations from project site.

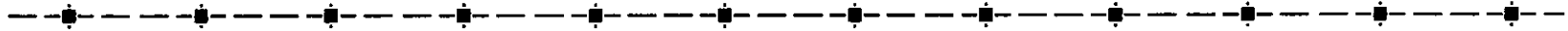
United Strategies, Inc.

Kleinfelder, Inc.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004



DEMONSTRATION PROJECT RESULTS

- ✧ Results of the Demonstration Project (both ongoing and final) will then be prepared in a report format.

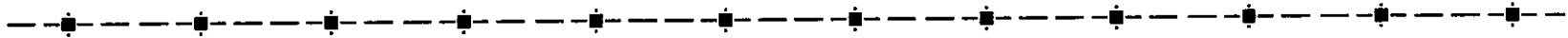
United Strategies, Inc.

Kleinfelder, Inc.

Proposed Perchlorate Remediation Demonstration Project

REAP

Rialto, CA March 2004

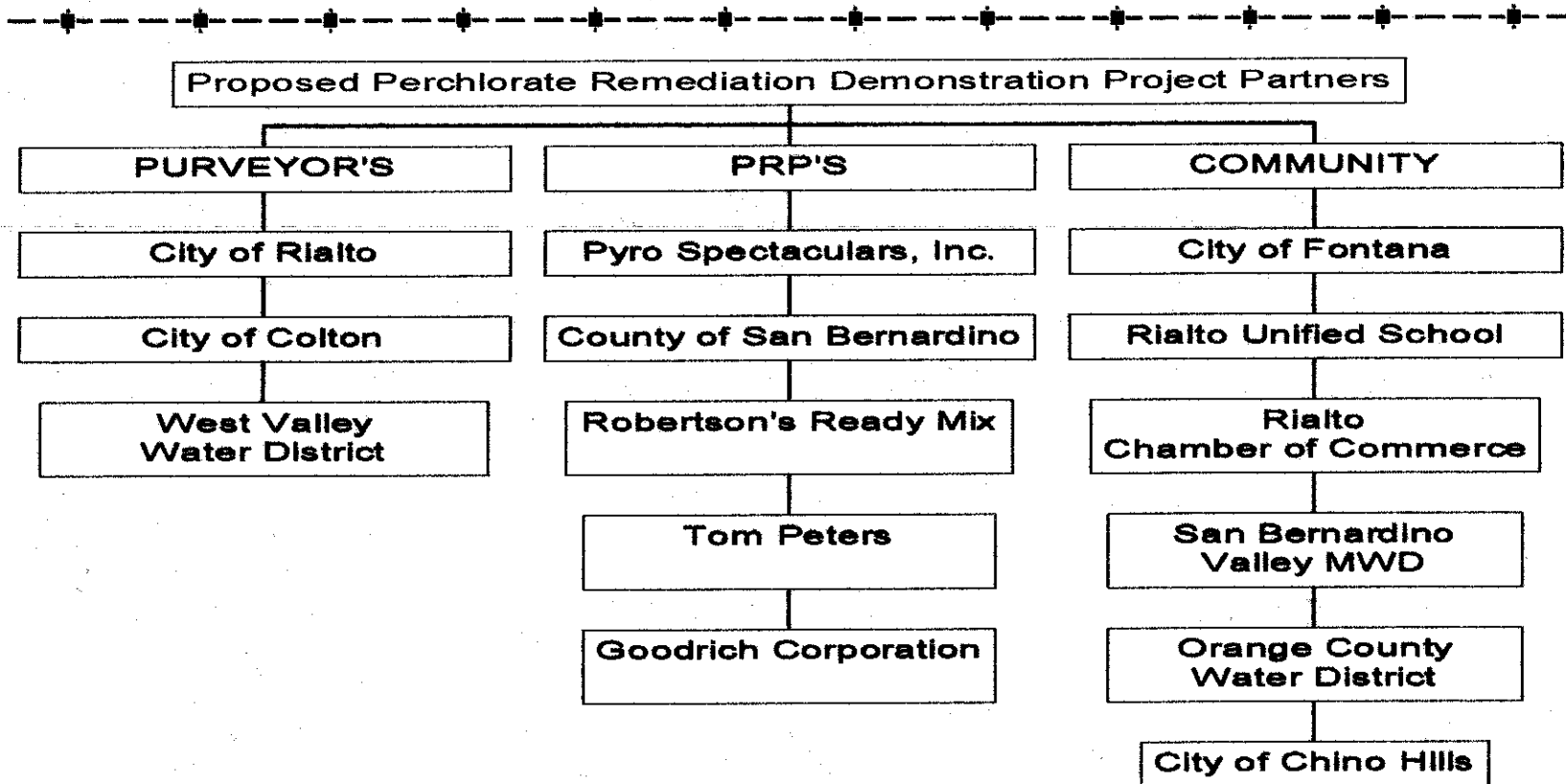


COMMUNITY & COALITION PRESENTATION

- ✧ Ongoing and final results are made available to the community, coalition members, and stakeholders (including regulators) in a presentation or presentations as necessary.

Rialto Environmental Assessment Partnership

REAP



Informal discussion underway seeking
Participation Agreement